



PHYSICS &gt;&gt; Current Electricity

Q 1

To measure an A.C. voltage by using an A.C. potentiometer, it is desirable that the supply for the potentiometer is taken

A

From a source which is not the same as the unknown voltage

B

From a battery

C

From the same source as the unknown voltage

D

Any of the above



Time Remaining:



Question 2/210

PHYSICS &gt;&gt; Thermodynamics

Q 2

Which of the following is equivalent to a temperature 350K?

A

77 C

B

-77 C

C

623 C

D

-623 C

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Q 3

Magnetic flux is given by

A

dot product of magnetic field and area vector

B

cross product of magnetic field and area vector

C

both of these

D

none of these

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Q 4 According to Faraday law EMF stands for

A electromagnetic friction

B electromagnetic force

C electromagnetic function

D none of these

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Q 5 The study of electric charges at rest in electric field is known as:...

A electromagnetism

B electrostatics

C quantum physics

D magnetism

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Q 6 Which unit is used in the measurement of Displacement?

A m

B m/s

C 1/s

D N

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Q 7

Black body radiations are :

A

Infrared and visible light rays

B

All radiations

C

Visible light and ultraviolet rays

D

Ultraviolet and X-rays

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Q 8

A constant force of 10N is applied in horizontal direction and distance travelled in the direction of force is 2m, then work done is

A 50 J

B 20 J

C 22 J

D 10j

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Q 9 Which of the following is a thermodynamic coordinate

A P

B T

C V

D R

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Q 10

The charge on electron is equal to

A

proton

B

two protons

C

two neutrons

D

none of these

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Q 11

A longitudinal standing wave, in second harmonic mode, is established in a tube that is open at both ends. The length of the tube is 0.80 m. What is the wavelength of the waves that make up the standing wave?

A 0.20 m

B 0.40 m

C 0.80 m

D 1.60 m

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Q 12

Ohm's law is applicable to

A

Semiconductors

B

Vacuum tubes

C

Carbon resistors

D

None of these

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Q 13 The radius  $R$  of a nucleus is given by :

A  $R = r_0 A^{-1/3}$

B  $R = r_0 A^{1/3}$

C  $R = r_0 A^3$

D none of these

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Q 14

Range of wavelength of visible light is :

A

 $700^{\circ}\text{A} - 1000^{\circ}\text{A}$ 

B

 $1\text{nm} - 100\text{nm}$ 

C

 $0.1\text{nm} - 1\text{nm}$ 

D

 $4000^{\circ}\text{A} - 7000^{\circ}\text{A}$ 

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Q 15

Black body is considered ideal when it

A

emits all radiation

B

absorbs all radiation

C

both a and b

D

none of these

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Q 16

The photon is the particle , which has :

A

Infinite rest mass

B

Rest mass but no charge

C

No rest mass & no charge

D

A & C are correct

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Q 17

If the peak to peak voltage is 10V, calculate the peak voltage.

A

2V

B

10V

C

4V

D

5V

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Q 18 Acceleration of an object is defined as the rate of change of

A displacement

B time

C velocity

D distance

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Q 19

First law of thermodynamics state

A

system can do work

B

system has temperature

C

system has pressure

D

Heat is form of energy

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Q 20

If a half wave rectifier is used to convert 50Hz AC into DC, then the number of pulses present in rectifier voltage is

A 25

B 50

C 100

D 75

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Q 21

The battery of a pocket calculator supplies 0.35A at a potential difference of 6 volts. What is the power of the calculator?

A 9 Watt

B 2.1 Watt

C 4 Watt

D 7 Watt

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Q 22

Peak voltage in the output of full wave rectifier is 10V so dc component of output voltage is

A

$10\sqrt{2}$

B

$20/\sqrt{2}$

C

$20/\pi$

D

$20\pi$

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Q 23

What will be the means life of a source whose half-life is 1 hour

A

0.693 hour

B

1 hour

C

1.9 hour

D

1.443 hour

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Q 24

In a conductor, if 6-coulomb charge flows for 2 seconds. The value of electric current will be

A

3 ampere

B

3 volts

C

2 amperes

D

2 volts

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Q 25

Our system stability is least affected by

A

Reactance of generator

B

Input torque

C

Losses

D

Reactants of transmission line

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Q 26

Angular velocity cannot be

A

zero

B

negative

C

infinite

D

linear

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Q 27

Michelson interferometer can be used to measure:...

A

speed of sound

B

wavelength of sound

C

speed of light

D

wavelength of light

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Q 28

If two bodies have same temperature the rate of heat transfer between them is

A

infinite

B

zero

C

double the temperature

D

none of these

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Q 29

The magnetic flux ( $\phi$ ) linked with a coil is related to the number of turns ( $N$ ) of the coil as:

A  $f \propto N$

B  $f \propto N^{-1}$

C  $f \propto N^2$

D  $f \propto N^{-2}$

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Q 30

If a wheel of radius  $r$  turns through an angle of  $30^\circ$ , then the distance through which any point on its rim moves is?

A  $\pi/3r$ B  $\pi r/6$ C  $\pi/30r$ D  $\pi/180r$ 

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Q 31

A constant force of 20N is applied in horizontal direction and distance travelled in the direction of force is 5m, then work done is

A 200 J

B 50 J

C 20 J

D 100 J

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Q 32

The nucleus shape is considered to be

A

square

B

rectangle

C

sphere

D

circular

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Q 33

The direction of which angular quantity cannot be measured by right hand

A

angular velocity

B

angular acceleration

C

torque

D

all of these

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Q 34

Find the magnetic flux density when a flux of 28 units is enclosed in an area of 15cm.

A

178.33 units

B

186.67 units

C

192.77 units

D

200 units

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Q 35

The momentum of the moving photon is

A

zero

B

 $h\lambda$ 

C

 $\lambda/h$ 

D

 $h/\lambda$ 

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Q 36

A charge of 2 C placed in electric field of 10 N/C what will be the work done in moving charge a distance of 5 m

A 100 J

B 50 J

C 150 J

D 200 J

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Q 37

The speed of sound,  $v$ , is not affected by a variation in the pressure of the gas, because:

A speed,  $v$ , does not depend on pressure

B speed,  $v$ , does not depend on density

C density is proportional to pressure

D none of the above

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Q 38

The SI unit of velocity is

A

 $\text{m/s}$ 

B

 $1/\text{s}$ 

C

 $\text{m/s}^2$ 

D

 $\text{m/s}^3$ 

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Q 39

A transverse wave on a string has an amplitude  $A$ . A tiny spot on the string is colored red. As 1.5 cycle of the wave passes by, what is the total distance traveled by the red spot?

A  $A$ B  $2A$ C  $4A$ D  $6A$ 

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Q 40

Many computer keyboard buttons are constructed using capacitors. When a key is pushed down, the soft insulator between the movable plate and the fixed plate is compressed. When the key is pressed, what happens to the capacitance?

- A it increases
- B it decreases
- C it remains same
- D it changes in a way you cannot determine because of the complex circuit

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Q 41 When a monochromatic light travels from glass into air, then...

- A its frequency and wavelength both stays same
- B its frequency stays same but wavelength increases
- C its frequency increases but wavelength stays same
- D its frequency decreases and wavelength increases

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Q 42

Current that fluctuates periodically with time is

A

DC current

B

BC current

C

AC current

D

magnetic current

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Q 43 An adiabatic change is the one in which:....

A No heat is added to or taken out of a system

B No change of temperature takes place

C Boyle's law is applicable

D Pressure and volume remains constant

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Q 44

The efficiency of the heat engine can be increased by:...

- A decreasing the temperature of high temperature reservoir
- B increasing the temperature of high temperature reservoir
- C increasing the temperature of low temperature reservoir
- D increasing the temperature of both high temperature reservoir and low temperature reservoir

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Q 45

Two point charges are at the distance  $d$ . If force between these two charges is  $F$ , then what is the force between charges when the distance between them is  $3d$ ?

A  $F \text{ ---- } 3$ B  $F \text{ ---- } 9$ C  $F \text{ ---- } 3d$ D  $F \text{ ---- } 9d$ 

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Q 46 According to Einstein, mass and energy are

A inversely

B directly

C equal to

D none of these

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Q 47

Which color of heat shows highest temperature

A

red

B

blue

C

black

D

orange

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Q 48

In which of the following processes the heat is neither absorbed nor released by a system?

A

isochoric

B

isothermal

C

adiabatic

D

isobaric

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Q 49

A wire has a resistance of  $5.5\ \Omega$  at  $19^\circ\text{C}$  and  $21.5\ \Omega$  at  $200^\circ\text{C}$ . Find the temperature coefficient of resistivity( $\alpha$ ) of the material.

A 0.016 per degree celsius

B 32 per degree celsius

C 0.018 per degree celsius

D 0.00106 per degree celsius

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Q 50

Two wires of copper are of the same length but have different diameters. When they are connected in series across a battery, the heat generated is  $H_1$ . When connected in parallel across the same battery, the heat generated during the same time is  $H_2$ . Then :

A  $H_1 = H_2$ B  $H_1 < H_2$ C  $H_1 > H_2$ D  $H_1 > H_2$ 

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Q 51 At every point of trajectory of projectile which of the following quantities is always zero

A horizontal velocity

B total velocity

C vertical acceleration

D horizontal acceleration

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Q 52

A monochromatic light is incident on a single slit, and a diffraction pattern forms on the screen. If  $\alpha$  is the angle between central maximum and first minimum, then which of the following change will increase  $\alpha$ ?

- A increase the width of slit
- B decrease the width of slit
- C increase the distance between screen and slit
- D decrease the distance between screen and slit

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Q 53

Sample of radioactive element with initial mass of 24 gm decayed to 3 gm in 36 minutes. How much of original sample remained after the first 12 minutes?

A 12 g

B 6 g

C 2 g

D 8 g

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Q 54 A particle radioisotope has a half life of 5 days. In 15 days the probability of decay in percentage will be

A 67 %

B 87.5 %

C 82.5 %

D 77 %

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Q 55

The electron is purely a \_\_\_\_ when free

A

particle nature

B

wave nature

C

dual nature

D

it transform to photon

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Q 56

An object is displaced from point A (2,3,4) m to point B (1,2,3) m under a constant force  $F = (2\mathbf{i} + 3\mathbf{j} + 4\mathbf{k})$ . find the work done by this force in this process

A 9 J

B 0

C -9 J

D 20 J

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Q 57

This is a reduced compound

A

CO<sub>2</sub>

B

O<sub>2</sub>

C

NADH

D

NAD<sup>+</sup>

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Q 58 Which of the following is not found in series protostomia?

A Annelida

B Arthropoda

C Mollusca

D Echinodermata

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Q 59

These animals show radial symmetry.

A

Chordates

B

Annelids

C

Cnidarian

D

Round worms

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Q 60

Coccobacillus has a shape similar to which of the following?

A

egg

B

rod

C

ball

D

none of these

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Q 61

Lymphoid masses are present in the walls of:

A

digestive tract

B

mucosa

C

submucosa

D

all of these are correct

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Q 62

All enzymes are:

A

globular proteins

B

Fibrous proteins

C

Glycoproteins

D

Lipoproteins

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Q 63

Synaptic vesicles discharge which hormone at the neuromuscular junction?

A

acetylcholine

B

adrenaline

C

estradiol

D

testosterone

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Q 64

The severe reduction in population size is due to which of the following?

A

genetic drift

B

outbreeding

C

inbreeding

D

bottleneck

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Q 65

What type of molecule is Chlorophyll?

A

Inorganic

B

Cationic

C

Anionic

D

Organic

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Q 66

What is the name of the tube that carries sperm and urine out of the human body?

A

Penis

B

seminal vesicles

C

urethra

D

Ureter

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Q 67

Which of the following proteins directly interacts with the myosin-binding site on actin?

A Tropomyosin

B Troponin

C both a and b

D none of these

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Q 68

Competitive inhibitors and real substrate often have similar?

A

structure

B

chemical properties

C

physical properties

D

none of these

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Q 69 Choose the region/s of spinal cord:

A cervical

B thoracic

C lumbar

D All of these

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**Q 70** About what % of photosynthesis is carried by terrestrial plants, while rest occurs in ocean, lakes, and ponds.

**A** 40

**B** 10

**C** 20

**D** 30

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Q 71

Which of the following is soluble in hot water?

A

Starch

B

glycogen

C

amylose

D

amylopectin

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Q 72

Which one of the following is most likely to occur in a boy during puberty?

A

He produces eggs

B

His shoulders broaden.

C

The colour of his eyes change.

D

None of these

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Q 73

Which of the following is not the function of endoplasmic reticulum?

A transport of material

B mechanical support

C Synthesis of conjugated molecules

D all of these

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Q 74 The retinal is important for \_\_\_\_\_ of human

A vision

B metabolism

C muscle contraction

D muscle twitch

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Q 75

The process of intake of oxygen and release of carbon dioxide is classified as

A

Respiratory exchange

B

Gaseous exchange

C

Diffusion

D

Osmosis

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Q 76

Adaptations that an organism acquires by its own actions are which of the following?

A

heritable

B

non heritable

C

both a and b

D

acquired

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Q 77

glyoxysomes are most abundantly found in which of the following?

A

golgi complex

B

ribosomes

C

actin

D

plant seedling

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Q 78

Flame cells in Planaria constitute the:

A

Digestive system

B

Reproductive system

C

Respiratory system

D

Excretory system

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Q 79 Lamarck's ideas on biological evolution contained correct and incorrect notions. Which of his ideas is correct?

- A Acquired traits can be passed on to offspring
- B Living forms become perfect with time
- C nervous fluids are passed on from generation to generation
- D Evolution is related to changes in adaptation to the environment

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Q 80

Rigor mortis after death results due to which?

A

Decrease in body temperature after death.

B

Accumulation of rigid proteins molecules in sarcoplasm.

C

Death of tissue due to unavailability of  $O_2$ .

D

Unavailability of ATP, which is necessary to break the link between actin and myosin.

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Q 81

ATP is used when \_\_\_\_

A to synthesize the macromolecules

B to transport of molecules and ions

C to perform mechanical work

D all of above

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Q 82

Which of the following are motile zooids in cnidarians?

A

polyps

B

medusae

C

both a and b

D

none of these

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Q 83 The energy required to start a reaction is called?

A startup energy

B initial energy

C point energy

D activation energy

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Q 84

Which of the following refers to the region of RNA responsible for binding ribosomes during prokaryotic translation?

A

TATA box

B

Promoter

C

Terminator

D

Shine-Dalgarno sequence

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Q 85

What occurs when the thin actin and thick myosin filaments slide past each other?

A

Muscle relaxation

B

Muscle contraction

C

Muscle twitch

D

None of these

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Q 86

Baldness is most frequent in which of the following?

A

men

B

women

C

both a and b

D

children

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Q 87 In which of the following cases, genotypic and phenotypic ratio will remain same in F<sub>2</sub> generation?

A Law of independent assortment

B Law of Segregation

C Test cross

D Incomplete dominance

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Q 88

In which of the following animals, placenta is formed?

A

Prototherians

B

Metatherians

C

Eutherians

D

all of these

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Q 89

After fertilisation the zygote increases in size and travels down the Fallopian tube to become embedded in the walls of the womb. This process is called:

- A Ovulation
- B conception
- C implantation
- D menstruation

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Q 90

The period during which a girl sexually matures is called

A

menstrual cycle

B

puberty

C

childhood

D

teens

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Q 91 Under the microscope, the bacteria appear a bluish-purple color. Which class of bacteria are on the slide?

A helix

B around

C rod

D rigid helix

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Q 92

what is the microscope's ability to distinguish between separate objects that are close together?

A

magnification

B

contrast

C

resolving power

D

scanning power

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Q 93

The optimum pH of Salivary amylase is?

A

6.8

B

6

C

8.8

D

8

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Q 94

All of the following are characteristics of prokaryotic cells except for?

A

unicellularity

B

lack of membrane-bound organelles

C

a cell wall

D

they are usually found in protists and fungi

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Q 95

Optimal pH for working of enzymes is?

A

5

B

7.5

C

9

D

3

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Q 96

All of them are NOT fish except:

A

Starfish

B

Jellyfish

C

Cuttlefish

D

Catfish

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Q 97

Viruses are how much smaller than bacteria?

A

20 to 2000 times

B

10 to 1000 times

C

500 times

D

3000 times

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Q 98

A plant cell wall is mainly composed of which of the following?

A protein

B lipid

C cellulose

D starch

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Q 99

Which statement correctly identifies an adaptation for parasitic lifestyle of tapeworm?

A

Presence of suckers and hooks.

B

Asexual reproduction by fission.

C

The presence of mesoderm in embryonic stages.

D

All of the above.

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Q 100

The number of stages involved in heart beat is

A

2

B

3

C

4

D

5

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Q 101

In myelinated neurons the impulse jumps from node to node, what is this transmission called?

A myelinated impulse

B jumping impulse

C saltatory impulse

D all of these

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Q 102

This is a example of glycoprotein

A

starch

B

haemoglobin

C

lecithin

D

mucin

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Q 103

Which of these is the functional unit of lungs?

A

alveoli

B

bronchioles

C

air-sac

D

bronchi

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Q 104

What is the length of spinal cord?

A

10-20 cm

B

20-30cm

C

40-50cm

D

60-90 cm

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Q 105

A person has a mutation that produces abnormal sarcoplasmic reticulum. Which of the following will not be a consequence of this mutation?

A The myosin heads will not bind the actin filaments

B Troponin will not be activated

C Tropomyosin will remain bound to actin

D Calcium ions will not be released into a synapse

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Q 106

Thymus, spleen, tonsils and adenoids produce:

A

erythrocytes

B

lymphocytes

C

phagocytes

D

thrombocytes

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Q 107

The G3P is end product of this process

A

Kreb's cycle

B

Calvin cycle

C

chemiosmosis

D

electron transport chain

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Q 108

Which of the following contains DNA?

A

slime

B

plasmid

C

ribosome

D

pili

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Q 109

Which of the following is not a true characteristic of spermatogonia?

A

They develop into primary spermatocytes through mitosis

B

They are undifferentiated

C

They are germ line cells

D

They are haploid

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Q 110

If an organism has a diploid number of 36, what is its haploid number?

A 12

B 9

C 18

D 22

109

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Q 111

The location of virion assembly

A

Nucleus

B

Plasma Membrane

C

golgi complex

D

all of these

110

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Q 112

Which statement is true about noncompetitive inhibitors?

A They bind covalently to the enzyme and disrupt the substrate from attaching

B They bind at the active site of the enzyme

C They actively block the enzyme from attaching to the substrate.

D They alter the conformation of the enzyme.

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Q 113 The animals which belongs to division Radiata is/are?

A triploblastic

B diploblastic

C radioblast

D all of these

112

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Q 114 Which is the correct order of energy transfer from accessory pigments to main photosynthetic pigment

A Carotenoids, Chlorophyll a, Chlorophyll b.

B Chlorophyll b, Carotenoids, Chlorophyll a.

C Carotenoids, Chlorophyll b, Chlorophyll a.

D Chlorophyll a, Chlorophyll b, Carotenoids.

113

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Q 115

Which of the following plays vital role in defense activity of macrophages?

A

Lysozymes

B

Lysosomes

C

mitochondria

D

nucleus

114

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Q 116

Which statement is true about an aqueous medium?

A

Ionic as well as non ionic substance in aqueous media retains their identity.

B

Enzymes can not perform catalysis reaction in this medium.

C

It is less favorable media for chemical reactions.

D

Ions and molecules move randomly thus are in more favorable state to react with other molecules and ions

115

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Q 117

Who proposed pressure flow theory?

A

Dixon

B

Mohl

C

Sanger

D

Munch

116

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Q 118

The brain part involved in conscious activities is:

A

cerebral cortex

B

limbic system

C

Brain stem

D

thalamus

117

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Q 119

How many carbons does citrate have in the krebs cycle?

A 5

B 6

C 8

D 4

118

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Q 120

What's the difference between homologous and analogous structures?

A

Homologous structures result from a common ancestor; analogous structures result from repetitive usage by the individual

B

Homologous structures result from convergent evolution; analogous structures result from a common ancestor

C

There is no difference between homologous and analogous structures

D

Homologous structures result from a common ancestor; analogous structures result from convergent evolution

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Q 120

What's the difference between homologous and analogous structures?

A

Homologous structures result from a common ancestor; analogous structures result from repetitive usage by the individual

B

Homologous structures result from convergent evolution; analogous structures result from a common ancestor

C

There is no difference between homologous and analogous structures

D

Homologous structures result from a common ancestor; analogous structures result from convergent evolution

119

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Q 121 All of the following descriptions concerning viral multiplication and nucleic acids are true EXCEPT that:

- A viruses contain DNA or RNA, not both.
- B viruses replicate only in living cells
- C viruses use the cell's biosynthetic machinery to synthesize copies of themselves.
- D viral mRNA, viral tRNA, and viral ribosomes are used in viral replication.

120

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Q 122

Which of the following was considered as a missing link between reptiles and birds?

A

Pteranodon

B

Avimimus

C

Caudipteryx

D

Archaeopteryx

121

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Q 123

The world No Tobacco Day is observed on

A

20 May

B

31 May

C

1 May

D

29 July

122

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Q 124

The spinal cord consist of which type of cell bodies?

A

sensory neuron

B

motor neuron

C

connector neuron

D

all of these

123

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Q 125

The slope of the curve obtained by plotting concentration change with time is actually

A Reaction time

B Reaction Speed

C Rate of reaction

D All of these

124

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Q 126

Which of the following element is present in all proteins ?

A

S

B

C

C

N

D

O

125

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Q 127

In a Voltaic Cell Zinc Electrode is dipped in

A

Copper Sulphate

B

Copper chloride

C

Zinc Chloride

D

Zinc Sulphate

126

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Q 128

The wavelength of radiation that have been absorbed by an element appear as \_\_ lines and background is \_\_\_\_ in an atomic absorption spectrum

A dark, bright

B bright, dark

C dark, light

D bright, light

127

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Q 129

The precipitation of weaker electrolyte follows

A

Law of Mass Action

B

Law of energy Conservation

C

Le chatelier's Principle

D

None of these

128

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Q 130

Which of the following Halogen react fast with alkanes in substitution reactions?

A  $\text{Cl}_2$

B  $\text{F}_2$

C  $\text{I}_2$

D  $\text{Br}_2$

129

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Q 131

Which of the following element can form interstitial alloy with transition elements?

A Zn

B Mg

C H

D All of these

130

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Q 132

The unit used to express the relative atomic mass is called

A

gram unit

B

Avogadro's number

C

atomic mass

D

atomic mass unit

131

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Q 133

Which one is not member of Alkali metals?

A

Na

B

K

C

Cs

D

Mg

132

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Q 134

The separation of components of liquid on the basis of their boiling points is called as?

A

Destructive distillation

B

Fractional distillation

C

Vacuum distillation

D

Partial distillation

133

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Next Question 

Q 135

The outermost s and p orbitals of Noble gases are completely filled that why they are

A

stable, reactive

B

stable ,uncreative

C

unstable, reactive

D

unstable ,uncreative

134

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Q 136

The sum of potential and kinetic energy of a system is called

A

Entropy

B

Enthalpy

C

Internal Energy

D

Heat Energy

135

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Next Question 

Q 137

Structure of a Crystal is changed due to

A

Cooling

B

Heating

C

Impurity

D

None of these

136

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Q 138 Rate of diffusion of liquids is \_\_\_\_\_ than gases

A Lower

B Higher

C Equal to

D All of these

137

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Q 139

Rate of reaction increases with increase by increasing temperature because

A

The concentration of the reaction increases

B

The activation energy for reaction increases

C

Collision frequency increases

D

All of these

138

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Q 140

In Boyle's law, the relationship between pressure and volume is

A directly proportional

B inversely proportional

C constant

D none of these

139

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Q 141

In complex compounds the oxidation number is written in

A

English

B

Greek

C

Roman numeral

D

Hebrew

140

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Q 142

In aluminum oxide ,ions are present in the ratio 2:3, its formula in

A

 $\text{AlO}$ 

B

 $\text{Al}_2\text{O}$ 

C

 $\text{Al}_2\text{O}_3$ 

D

 $\text{Al}_3\text{O}_2$ 

141

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Q 143 when water freezes to ice, it occupies \_\_\_\_ more space

A  $0.9 \text{ g/cm}^3$

B  $0.1 \text{ g/cm}^3$

C  $0.12 \text{ g/cm}^3$

D  $0.13 \text{ g/cm}^3$

142

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Q 144

What does thermodynamics means?

A

Study of change in state of the system

B

Study of energy changes during a process

C

Study of material content of a system

D

All of these

143

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Q 145

Which of the following causes complete reduction of carboxylic acid into alkanes?

A

 $\text{H}_2/\text{Ni}$ 

B

 $\text{Pd/C}$ 

C

 $\text{HI/P}$ 

D

 $\text{LiAlH}_4$ 

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Q 146

The last subshell of alkaline earth metals

A

2s

B

1s

C

2d

D

3d

145

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Q 147

1 amu is equal to

A

$1.666 \times 10^{-27} \text{ kg}$

B

$1.661 \times 10^{-28} \text{ kg}$

C

$1.661 \times 10^{-27} \text{ kg}$

D

$1.661 \times 10^{-27} \text{ kg}$

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Q 148 All the halogens are \_\_\_\_\_ diatomic molecules

A polar

B non polar

C reactive

D non reactive

147

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Next Question 

Q 149 Tollen's reagent is ammoniacal solution of \_\_\_\_\_?

A Silver nitrate

B Silver acetate

C Cupric tartrate

D Cupric citrate

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Q 150

The coefficients of balanced equation are a part of Equilibrium constant value as

A

denominator

B

numerator

C

powers of concentration

D

All of these

149

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Q 151

In order to get absolute alcohol following is added to absorb moisture

A  $\text{MgO}$

B  $\text{CaO}$

C  $\text{Co}_2$

D  $\text{Cl}_2$

150

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Q 152

Which of the following is most reactive of all?

A

Alkanes

B

Alkenes

C

Alkynes

D

Benzene

151

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Next Question 

Q 153

The products of  $S_N1$  reactions are formed with\_\_\_\_\_?

A

Retention in configuration

B

Inversion in Configuration

C

50% retention and 50% inversion in configuration

D

All of these

152

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Q 154

In Electrochemical Cells oxidation takes place at

A

Cathode

B

Anode

C

Away from anode

D

None of these

153

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Q 155

The ionic radii appeared to be a/an property

A

associative

B

multiplicative

C

additive

D

all of these

154

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Q 156 In nomenclature, aldehyde group in all aldehydes are given position 1 and its position is not mentioned in the name because?

A Aldehyde is given priority

B Aldehyde is parent

C Aldehyde group is present at terminal

D None of these

155

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Q 157

Anisotropy is a property of crystal based on its

A

Chemical Properties

B

Lattice Structure

C

Physical Properties

D

Density

156

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Q 158

The electrolysis of aqueous solutions of salt is complex because of the ability of water

A

to vaporize

B

to be oxidize and reduce simultaneously

C

to form hydrogen bonds

D

All of these

157

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Q 159 The volume at S.T.P occupied by .8 g of N<sub>2</sub>

A 2.24 dm<sup>3</sup>

B 6.44 dm<sup>3</sup>

C 1.12 dm<sup>3</sup>

D 112 dm<sup>3</sup>

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Q 160

Which of the following is correct about octane number?

A

Higher the octane number, higher will be knocking

B

Higher the octane number, efficiency of fuel will be lower

C

Higher the octane number, lower the knocking

D

Lower the octane number, lower the knocking

159

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Q 161

Which one of the following is not a secondary alkyl halide?

A

2-Chloropropane

B

3-Bromobutane

C

2,3,dichloropentane

D

2-chloro,2-methylpentane

160

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Q 162

State functions are independent of

A

Enthalpy Change

B

Surroundings

C

Path of the reaction

D

system

161

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Q 163

When we calculate radii of Hydrogen atom by this equation  $r = .529A (n^2)$  where  $n = 1, 2, 3, 4, \dots$ , the distance between orbits of hydrogen atom will

- A decrease
- B increase
- C remains same
- D be constant

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Q 164 A peptide having up to 10000 amino acids is called as \_\_\_\_\_?

A Dipeptide

B Protein

C Polypeptide

D Peptide

163

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Q 165

The study of crystalline solids determines the

A

mole

B

Avogadro's number

C

atomic mass

D

atomic number

164

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Q 166

Proteases enzyme & peptones belong to which type of protein?

A

Simple protein

B

Derived proteins

C

Conjugated proteins

D

All of these

165

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Q 167

Which one of them is a good conductor of electricity

A

ionic solids

B

molecular solids

C

network covalent solids

D

metallic solids

166

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Q 168

AB<sub>4</sub> type with no lone pair shows geometry

A

Tetrahedral

B

trigonal

C

bent

D

linear

167

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Q 169

Ethyne molecule is formed when:

- A When two  $sp$  hybridized orbitals combine
- B When two  $sp^2$  hybridized orbitals combine
- C When two  $sp^3$  hybridized orbitals combine
- D When two  $sp^2d$  hybridized orbitals combine

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Q 170

In Ion electron method, while balancing oxygen and Hydrogen atoms

A

First balance Hydrogen

B

First balance oxygen

C

balance both at the same time

D

order doesn't matter

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Q 171

Distillation of calcium acetate and calcium formate produces ?

A

Formaldehyde

B

Acetaldehyde

C

Acetone

D

None of these

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Q 172

The smallest number of molecules are present in

A

3.6g of  $H_2$

B

4.8g of  $C_2H_5OH$

C

2.8 g of  $CO$

D

5.4 g of  $N_2O_5$

171

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Q 173

As the hydrolysis of ester proceeds more and more acid is formed giving a

A Rising curve

B Falling Curve

C Straight line

D None of these

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Q 174

By which of the following way acetamide can be prepared?

A

Hydrolysis of ethyl chloride

B

Heating methyl cyanide

C

Heating ammonium acetate

D

Heating ethyl acetate

173

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Q 175

which of the following has neither secondary nor tertiary hydrogen

A

isobutane

B

pentane

C

neo-pentane

D

isopentane

174

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Q 176

First step in the  $S_N1$  reaction is\_\_\_\_\_?

A

Dehydration

B

Protonation

C

Ionization

D

Attack of nucleophile and departure of leaving group

175

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Next Question 

Q 177

Tertiary alcohols upon reaction with oxidizing agents give \_\_\_\_\_ as major product?

A Carboxylic acids

B Alkene

C Alkyne

D Ester

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Q 178 The central atom along with ligands is called

A Complex ion

B Coordination sphere

C Ligand

D Complex compound

177

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Q 179

If any two sub shells have same  $(n+l)$  values, the sub shells of \_\_\_\_\_ value will placed first

A higher

B smaller

C equal

D moderate

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Q 180

Decomposition of Ozone has a very low value of equilibrium constant because of its

A

stability

B

reactivity

C

compressibility

D

Instability

179

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Next Question 

Demonstrate correct use of articles and prepositions

Q 181 Gold is \_\_\_\_\_ precious metal.

A a

B an

C the

D no article

180

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Next Question 

Demonstrate correct use of writing conventions of spelling, capitalization and punctuation to clarify meaning

Q 182

Choose the correct spelling of the word

A fual

B fuel

C fule

D fuil

181

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Next Question 

Demonstrate correct use of articles and prepositions Demonstrate correct use of subject-verb agreement

Demonstrate correct use of writing conventions of spelling, capitalization and punctuation to clarify meaning

Q 183

Choose the correct sentence.

A The weather in August is ususally very humid!

B The weather in August is ususally very humid.

C The weather in august is ususally very humid.

D The weather in August is ususally very Humid.

182

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Next Question 

Comprehend key vocabulary

Q 184

He is so shy. I haven't seen him \_\_\_\_\_

A

talking

B

jumping

C

limping

D

angry

183

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Next Question 

Demonstrate control of tenses and sentence structure

Q 185 He \_\_\_\_\_ his fortune amongst his three children.

A divides

B divided

C is dividing

D divide

184

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Next Question 

Demonstrate control of tenses and sentence structure

Q 186

Here \_\_\_\_\_ the bus!

A

came

B

come

C

has come

D

comes

185

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Next Question 

Demonstrate control of tenses and sentence structure

Q 187

It is raining cats and dogs.

A

Declarative

B

Imperative

C

Interrogative

D

Exclamatory

186

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Comprehend key vocabulary

Q 188

evoke

A

sell

B

calm

C

call

D

exaggerate

187

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Next Question 

Demonstrate control of tenses and sentence structure

Q 189 The tomatoes \_\_\_\_\_ picked when they were ripe.

A are speaking

B were

C are being

D were being

188

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Next Question 

Demonstrate correct use of articles and prepositions Demonstrate correct use of subject-verb agreement

Demonstrate correct use of writing conventions of spelling, capitalization and punctuation to clarify meaning

Q 190 They wanted money (A)/ to purchase somethings (B)/ for themselves (C)/ and donated to their friends. D)

A They wanted money

B to purchase somethings

C for themselves

D and donated to their friends.

189

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Next Question 

Demonstrate correct use of writing conventions of spelling, capitalization and punctuation to clarify meaning

Q 191

Choose the correct spelling of the word

A except

B excapt

C excipt

D ecsept

190

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Next Question 

Demonstrate correct use of subject-verb agreement

Q 192 The thief \_\_\_\_\_ before the policeman reaches.

A will have escape

B will have escaped

C will escaped

D will escape

191

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Next Question 

Demonstrate correct use of articles and prepositions

Q 193 Shall I turn \_\_\_\_\_ radio off?

A a

B an

C the

D no article

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Next Question 

Demonstrate correct use of articles and prepositions Demonstrate correct use of subject-verb agreement

Demonstrate correct use of writing conventions of spelling, capitalization and punctuation to clarify meaning

Q 194

Choose the correct sentence.

A

Help help! Me I'm drowning.

B

Help! Help me! I'm drowning!

C

Help, help me. Im drowning.

D

Help help me! Im drowning!

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Next Question 

Demonstrate correct use of articles and prepositions Demonstrate correct use of subject-verb agreement

Demonstrate correct use of writing conventions of spelling, capitalization and punctuation to clarify meaning

Q 195

Choose the correct sentence.

A "Trust me, I know what I'm doing," Bilal said. "Your car is not hard to fix."

B "Trust me, I know what I'm doing," Bilal said. "your car is not hard to fix."

C "Trust me I know what Im doing," Bilal said. "Your car is not hard to fix."

D "Trust me, I know what I'm doing," Bilal said. Your car is not hard to fix.

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Comprehend key vocabulary

Q 196

China is one of the most \_\_\_\_\_ countries in the world.

A popular

B populous

C populate

D popularized

195

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Next Question 

Demonstrate correct use of subject-verb agreement

Q 197 The peon will not \_\_\_\_\_ the bell yet.

A has rings

B had rung

C have rung

D rings

196

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Next Question 

Demonstrate control of tenses and sentence structure

Q 198 We \_\_\_\_\_ (eat) the popcorn and \_\_\_\_\_ (drink) the orange juice.

A eat, drink

B ate, drink

C eat, drank

D ate, drank

197

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Next Question 

Demonstrate correct use of articles and prepositions

Q 199

There is \_\_\_\_\_ institution for \_\_\_\_\_ blind in this city.

A

a... an

B

a... the

C

an... a

D

an... the

198

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Demonstrate control of tenses and sentence structure

Q 200

Which one is correct?

A

Had she clean her home?

B

Is that she cleaned her home?

C

Did she clean her home?

D

Has she cleaned her home?

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Verbal Classification

Q 201 Which one of the following is a different one?

A Skin

B Lungs

C Heart

D Life

200

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Next Question 

Statements and Conclusions

Q 202      Statements No cities are countries. No countries are villages. Conclusions (I) Some countries are cities. (II) No villages are the city.

A      Only conclusion (I) follows

B      Only conclusion (II) follows

C      Both conclusions follow

D      Both of them do not follow

201

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Complete the series

Q 203

Which letter lies in the middle of word Quality?

A

L

B

A

C

U

D

Y

202

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Verbal reasoning

Q 204

Statements (I) He have got cavity in his tooth (II) He eats too much chocolates

A statement 1 is the cause then 2 is its effect

B statement 2 is the cause then 1 is its effect.

C both statements are independent causes

D both statements are of common cause

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Verbal Classification

Q 205

Which of following can never be ending of a perfect square?

A 0

B 0

C 14

D Both A and B

204

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## Statement and Argument

Q 206

Statements Should admission to the professional degrees in Pakistan be given only on merit without any concession to any particular group of students? Arguments (I) Yes. This will improve the quality of the professional institutes and degrees as they will be able to complete the degree successfully. (II) No. This will keep a large number of socially and economically backward students out of the reach of professional institutes and degrees.

- A If argument I is strong.
- B If only argument II is strong
- C If both I and II are strong.
- D If neither I nor II is strong

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Series completion (Numbers/Letters)

Q 207

Look at this series: 36, 34, 30, 28, 24, ... What number should come next?

A

22

B

26

C

23

D

20

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## Statements and Actions

Q 208

Statement The availability of imported fruits has increased in the indigenous market and so the demand for indigenous fruits has been decreased. I. To help the indigenous producers of fruits, the Government should impose high import duty on these fruits, even if these are not of good quality. II. The fruit vendors should stop selling imported fruits. So that the demand for indigenous fruits would be increased.

A Both of them follows

B None of them follows

C Only I follows

D Only II follows

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## Statements and Actions

Q 209

Statement The availability of imported fruits has increased in the indigenous market and so the demand for indigenous fruits has been decreased. I. To help the indigenous producers of fruits, the Government should impose high import duty on these fruits, even if these are not of good quality. II. The fruit vendors should stop selling imported fruits. So that the demand for indigenous fruits would be increased.

A both of them follows

B None of them follows

C Only I follows

D Only II follows

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Verbal Reasoning

Q 210

Country with the highest muslim population is \_\_\_\_\_

A

Pakistan

B

Malaysia

C

Indonesia

D

Iran

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Submit

Q1

If a wheel of radius  $r$  turns through an angle of  $30^\circ$ , then the distance through which any point on its rim moves is?

A

$\pi/3r$

B

$\pi r/6$

C

$\pi/30r$

D

$\pi/180r$

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Q2 Which color of heat shows highest temperature

A red

B blue

C black

D orange

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Q3

The wavelength of radiation that have been absorbed by an element appear as \_\_ lines and background is \_\_\_\_ in an atomic absorption spectrum

A

dark, bright

B

bright, dark

C

dark, light

D

bright, light

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Q4

Which one of the following is most likely to occur in a boy during puberty?

A

He produces eggs

B

His shoulders broaden.

C

The colour of his eyes change.

D

None of these

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Q5 Which of these is the functional unit of lungs?

A alveoli

B bronchioles

C air-sac

D bronchi

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Q6

To measure an A.C. voltage by using an A.C. potentiometer, it is desirable that the supply for the potentiometer is taken

A

From a source which is not the same as the unknown voltage

B

From a battery

C

From the same source as the unknown voltage

D

Any of the above

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Q7

Which of the following is equivalent to a temperature 350K?

A

77 C

B

-77 C

C

623 C

D

-623 C

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Q8

Magnetic flux is given by

A

dot product of magnetic field and area vector

B

cross product of magnetic field and area vector

C

both of these

D

none of these

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Q9 According to Faraday law EMF stands for

A electromagnetic friction

B electromagnetic force

C electromagnetic function

D none of these

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Q10

Which unit is used in the measurement of Displacement?

A

m

B

m/s

C

1/s

D

N

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Q11 Black body radiations are :

A Infrared and visible light rays

B All radiations

C Visible light and ultraviolet rays

D Ultraviolet and X-rays

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Q12

A constant force of 10N is applied in horizontal direction and distance travelled in the direction of force is 2m, then work done is

A 50 J

B 20 J

C 22 J

D 10 j

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Q13

Which of the following is a thermodynamic coordinate

A

P

B

T

C

V

D

R

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Q14 The charge on electron is equal to

A proton

B two protons

C two neutrons

D none of these

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Q15

A longitudinal standing wave, in second harmonic mode, is established in a tube that is open at both ends. The length of the tube is 0.80 m. What is the wavelength of the waves that make up the standing wave?

A

0.20 m

B

0.40 m

C

0.80 m

D

1.60 m

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Q16

Ohm's law is applicable to

A

Semiconductors

B

Vacuum tubes

C

Carbon resistors

D

None of these

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Q17 The radius  $R$  of a nucleus is given by :

A  $R = r_0 A^{-1/3}$

B  $R = r_0 A^{1/3}$

C  $R = r_0 A^3$

D none of these

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Q18 Black body is considered ideal when it

A emits all radiation

B absorbs all radiation

C both a and b

D none of these

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Q19 The photon is the particle , which has :

A Infinite rest mass

B Rest mass but no charge

C No rest mass & no charge

D A & C are correct

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Q20

If the peak to peak voltage is 10V, calculate the peak voltage.

A

2V

B

10V

C

4V

D

5V

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Q21

Acceleration of an object is defined as the rate of change of

A

displacement

B

time

C

velocity

D

distance

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Q22 First law of thermodynamics state

A system can do work

B system has temperature

C system has pressure

D Heat is form of energy

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Q23

If a half wave rectifier is used to convert 50Hz AC into DC, then the number of pulses present in rectifier voltage is

A 25

B 50

C 100

D 75

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Q24

The battery of a pocket calculator supplies 0.35A at a potential difference of 6 volts. What is the power of the calculator?

A 9 Watt

B 2.1 Watt

C 4 Watt

D 7 Watt

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Q25

What will be the means life of a source whose half-life is 1 hour

A

0.693 hour

B

1 hour

C

1.9 hour

D

1.443 hour

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Q26 In a conductor, if 6-coulomb charge flows for 2 seconds. The value of electric current will be

A 3 ampere

B 3 volts

C 2 amperes

D 2 volts

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Q27 Our system stability is least affected by

A Reactance of generator

B Input torque

C Losses

D Reactants of transmission line

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Q28

Angular velocity cannot be

A

zero

B

negative

C

infinite

D

linear

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Q29

Michelson interferometer can be used to measure:...

A

speed of sound

B

wavelength of sound

C

speed of light

D

wavelength of light

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Q30

If two bodies have same temperature the rate of heat transfer between them is

A

infinite

B

zero

C

double the temperature

D

none of these

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Q31

The magnetic flux ( $\Phi$ ) linked with a coil is related to the number of turns ( $N$ ) of the coil as:

A  $\Phi \propto N$

B  $\Phi \propto N^{-1}$

C  $\Phi \propto N^2$

D  $\Phi \propto N^{-2}$

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Q32

A constant force of 20N is applied in horizontal direction and distance travelled in the direction of force is 5m, then work done is

A 200 J

B 50 J

C 20 J

D 100 J

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Q33

The nucleus shape is considered to be

A

square

B

rectangle

C

sphere

D

circular

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Q34

The direction of which angular quantity cannot be measured by right hand

A

angular velocity

B

angular acceleration

C

torque

D

all of these

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Q35

Find the magnetic flux density when a flux of 28 units is enclosed in an area of 15cm.

A

178.33 units

B

186.67 units

C

192.77 units

D

200 units

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Q36

The momentum of the moving photon is

A

zero

B

 $h\lambda$ 

C

 $\lambda/h$ 

D

 $h/\lambda$ 

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Q37

A charge of 2 C placed in electric field of 10 N/C what will be the work done in moving charge a distance of 5 m

A

100 J

B

50 J

C

150 J

D

200 J

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Q38 The speed of sound,  $v$ , is not affected by a variation in the pressure of the gas, because:

A speed,  $v$ , does not depend on pressure

B speed,  $v$ , does not depend on density

C density is proportional to pressure

D none of the above

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Q39

The SI unit of velocity is

A

 $\text{m/s}$ 

B

 $1/\text{s}$ 

C

 $\text{m/s}^2$ 

D

 $\text{m/s}^3$ 

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Q40

Many computer keyboard buttons are constructed using capacitors. When a key is pushed down, the soft insulator between the movable plate and the fixed plate is compressed. When the key is pressed, what happens to the capacitance?

A

it increases

B

it decreases

C

it remains same

D

it changes in a way you cannot determine because of the complex circuit

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Q41 When a monochromatic light travels from glass into air, then...

- A its frequency and wavelength both stays same
- B its frequency stays same but wavelength increases
- C its frequency increases but wavelength stays same
- D its frequency decreases and wavelength increases



Q42 Current that fluctuates periodically with time is

A DC current

B BC current

C AC current

D magnetic current

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Q43

An adiabatic change is the one in which:....

A

No heat is added to or taken out of a system

B

No change of temperature takes place

C

Boyle's law is applicable

D

Pressure and volume remains constant

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Q44

The efficiency of the heat engine can be increased by:....

A

decreasing the temperature of high temperature reservoir

B

increasing the temperature of high temperature reservoir

C

increasing the temperature of low temperature reservoir

D

increasing the temperature of both high temperature reservoir and low temperature reservoir

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Q45

Two point charges are at the distance  $d$ . If force between these two charges is  $F$ , then what is the force between charges when the distance between them is  $3d$ ?

A  $F \text{ ---- } 3$

B  $F \text{ ---- } 9$

C  $F \text{ ---- } 3d$

D  $F \text{ ---- } 9d$

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Q46

According to Einstein, mass and energy are

A

inversely

B

directly

C

equal to

D

none of these

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Q47 In which of the following processes the heat is neither absorbed nor released by a system?

A isochoric

B isothermal

C adiabatic

D isobaric

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Q48

A wire has a resistance of  $5.5\ \Omega$  at  $19^\circ\text{C}$  and  $21.5\ \Omega$  at  $200^\circ\text{C}$ . Find the temperature coefficient of resistivity( $\alpha$ ) of the material.

A 0.016 per degree celsius

B 32 per degree celsius

C 0.018 per degree celsius

D 0.00106 per degree celsius

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Q49

Two wires of copper are of the same length but have different diameters. When they are connected in series across a battery, the heat generated is  $H_1$ . When connected in parallel across the same battery, the heat generated during the same time is  $H_2$ . Then :

A

 $H_1 = H_2$ 

B

 $H_1 < H_2$ 

C

 $H_1 > H_2$ 

D

 $H_1 > H_2$ 

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Q50 At every point of trajectory of projectile which of the following quantities is always zero

A horizontal velocity

B total velocity

C vertical acceleration

D horizontal acceleration

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Q51

A monochromatic light is incident on a single slit, and a diffraction pattern forms on the screen. If  $\alpha$  is the angle between central maximum and first minimum, then which of the following change will increase  $\alpha$ ?

A

increase the width of slit

B

decrease the width of slit

C

increase the distance between screen and slit

D

decrease the distance between screen and slit

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Q52

Sample of radioactive element with initial mass of 24 gm decayed to 3 gm in 36 minutes. How much of original sample remained after the first 12 minutes?

A 12 g

B 6 g

C 2 g

D 8 g

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Q53 A particle radioisotope has a half life of 5 days. In 15 days the probability of decay in percentage will be

A 67 %

B 87.5 %

C 82.5 %

D 77 %

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Q54

An object is displaced from point A (2,3,4) m to point B (1,2,3) m under a constant force  $F = (2i + 3j + 4k)$ . find the work done by this force in this process

A 9 J

B 0

C -9 J

D 20 J

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Q55

This is a reduced compound

A

 $\text{CO}_2$ 

B

 $\text{O}_2$ 

C

NADH

D

 $\text{NAD}^+$ 

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Q56

Which of the following is not found in series protostomia?

A

Annelida

B

Arthropoda

C

Mollusca

D

Echinodermata

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Q57

These animals show radial symmetry.

A

Chordates

B

Annelids

C

Cnidarian

D

Round worms

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Q58

Coccobacillus has a shape similar to which of the following?

A

egg

B

rod

C

ball

D

none of these

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Q59 Lymphoid masses are present in the walls of:

A digestive tract

B mucosa

C submucosa

D all of these are correct

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Q60

All enzymes are:

A

globular proteins

B

Fibrous proteins

C

Glycoproteins

D

Lipoproteins

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Q61

Synaptic vesicles discharge which hormone at the neuromuscular junction?

A

acetylcholine

B

adrenaline

C

estradiol

D

testosterone

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Q62

What type of molecule is Chlorophyll?

A

Inorganic

B

Cationic

C

Anionic

D

Organic

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Q63

What is the name of the tube that carries sperm and urine out of the human body?

A

Penis

B

seminal vesicles

C

urethra

D

Ureter

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Q64

Which of the following proteins directly interacts with the myosin-binding site on actin?

A

Tropomyosin

B

Troponin

C

both a and b

D

none of these

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Q65

Competitive inhibitors and real substrate often have similar?

A

structure

B

chemical properties

C

physical properties

D

none of these

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Q66 Choose the region/s of spinal cord:

A cervical

B thoracic

C lumbar

D All of these

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Q67

About what % of photosynthesis is carried by terrestrial plants, while rest occurs in ocean, lakes, and ponds.

A 40

B 10

C 20

D 30

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Q68

Which of the following is soluble in hot water?

A

Starch

B

glycogen

C

amylose

D

amylopectin

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Q69

Which of the following is not the function of endoplasmic reticulum?

A

transport of material

B

mechanical support

C

Synthesis of conjugated molecules

D

all of these

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Q70 The retinal is important for \_\_\_\_\_ of human

A vision

B metabolism

C muscle contraction

D muscle twitch

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Q71

The process of intake of oxygen and release of carbon dioxide is classified as

A

Respiratory exchange

B

Gaseous exchange

C

Diffusion

D

Osmosis

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Q72 Adaptations that an organism acquires by its own actions are which of the following?

A heritable

B non heritable

C both a and b

D acquired

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Q73

glyoxysomes are most abundantly found in which of the following?

A

golgi complex

B

ribosomes

C

actin

D

plant seedling

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Q74 Flame cells in Planaria constitute the:

A Digestive system

B Reproductive system

C Respiratory system

D Excretory system

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Q75

Lamarck's ideas on biological evolution contained correct and incorrect notions. Which of his ideas is correct?

A

Acquired traits can be passed on to offspring

B

Living forms become perfect with time

C

nervous fluids are passed on from generation to generation

D

Evolution is related to changes in adaptation to the environment

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Q76

The severe reduction in population size is due to which of the following?

A

genetic drift

B

outbreeding

C

inbreeding

D

bottleneck

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Q77

The products of  $\text{SN}_1$  reactions are formed with\_\_\_\_\_?

A

Retention in configuration

B

Inversion in Configuration

C

50% retention and 50% inversion in configuration

D

All of these

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Q78 ATP is used when \_\_\_\_

A to synthesize the macromolecules

B to transport of molecules and ions

C to perform mechanical work

D all of above

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Q79

Which of the following are motile zooids in cnidarians?

A

polyps

B

medusae

C

both a and b

D

none of these

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Q80

The energy required to start a reaction is called?

A startup energy

B initial energy

C point energy

D activation energy

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Q81

Which of the following refers to the region of RNA responsible for binding ribosomes during prokaryotic translation?

A TATA box

B Promoter

C Terminator

D Shine-Dalgarno sequence

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Q82

What occurs when the thin actin and thick myosin filaments slide past each other?

A

Muscle relaxation

B

Muscle contraction

C

Muscle twitch

D

None of these

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Q83

Baldness is most frequent in which of the following?

A

men

B

women

C

both a and b

D

children

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Q84

In which of the following animals, placenta is formed?

A

Prototherians

B

Metatherians

C

Eutherians

D

all of these

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Q85

After fertilisation the zygote increases in size and travels down the Fallopian tube to become embedded in the walls of the womb. This process is called:

A

Ovulation

B

conception

C

implantation

D

menstruation

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Q86

The period during which a girl sexually matures is called

A

menstrual cycle

B

puberty

C

childhood

D

teens

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Q87 Under the microscope, the bacteria appear a bluish-purple color. Which class of bacteria are on the slide?

A helix

B around

C rod

D rigid helix

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Q88 what is the microscope's ability to distinguish between separate objects that are close together?

A magnification

B contrast

C resolving power

D scanning power

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Q89

The optimum pH of Salivary amylase is?

A

6.8

B

6

C

8.8

D

8

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Q90

All of the following are characteristics of prokaryotic cells except for?

A

unicellularity

B

lack of membrane-bound organelles

C

a cell wall

D

they are usually found in protists and fungi

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Q91 All of them are NOT fish except:

A Starfish

B Jellyfish

C Cuttlefish

D Catfish

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Q92

Viruses are how much smaller than bacteria?

A

20 to 2000 times

B

10 to 1000 times

C

500 times

D

3000 times

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Q93

A plant cell wall is mainly composed of which of the following?

A protein

B lipid

C cellulose

D starch

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Q94

Which statement correctly identifies an adaptation for parasitic lifestyle of tapeworm?

A

Presence of suckers and hooks.

B

Asexual reproduction by fission.

C

The presence of mesoderm in embryonic stages.

D

All of the above.

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Q95

The number of stages involved in heart beat is

A

2

B

3

C

4

D

5

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Q96 In myelinated neurons the impulse jumps from node to node, what is this transmission called?

A myelinated impulse

B jumping impulse

C saltatory impulse

D all of these

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Q97

This is an example of glycoprotein

A

starch

B

haemoglobin

C

lecithin

D

mucin

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Q98

What is the length of spinal cord?

A

10-20 cm

B

20-30cm

C

40-50cm

D

60-90 cm

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Q99

A person has a mutation that produces abnormal sarcoplasmic reticulum. Which of the following will not be a consequence of this mutation?

A The myosin heads will not bind the actin filaments

B Troponin will not be activated

C Tropomyosin will remain bound to actin

D Calcium ions will not be released into a synapse

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Q100

Thymus, spleen, tonsils and adenoids produce:

A

erythrocytes

B

lymphocytes

C

phagocytes

D

thrombocytes

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Q101

The G3P is end product of this process

A

Kreb's cycle

B

Calvin cycle

C

chemiosmosis

D

electron transport chain

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Q102

Which of the following contains DNA?

A

slime

B

plasmid

C

ribosome

D

pili

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Q103

Which of the following is not a true characteristic of spermatogonia?

A They develop into primary spermatocytes through mitosis

B They are undifferentiated

C They are germ line cells

D They are haploid

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Q104

If an organism has a diploid number of 36, what is its haploid number?

A 12

B 9

C 18

D 22

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Q105

The location of virion assembly

A

Nucleus

B

Plasma Membrane

C

golgi complex

D

all of these

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Q106

The animals which belongs to division Radiata is/are?

A

triploblastic

B

diploblastic

C

radioblast

D

all of these

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Q107 Which is the correct order of energy transfer from accessory pigments to main photosynthetic pigment

A Carotenoids, Chlorophyll a, Chlorophyll b.

B Chlorophyll b, Carotenoids, Chlorophyll a.

C Carotenoids, Chlorophyll b, Chlorophyll a.

D Chlorophyll a, Chlorophyll b, Carotenoids.

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Q108

Which of the following plays vital role in defense activity of macrophages?

A Lysozymes

B Lysosomes

C mitochondria

D nucleus

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Q109

Which statement is true about an aqueous medium?

A

Ionic as well as non ionic substance in aqueous media retains their identity.

B

Enzymes can not perform catalysis reaction in this medium.

C

It is less favorable media for chemical reactions.

D

Ions and molecules move randomly thus are in more favorable state to react with other molecules and ions

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Q110

Who proposed pressure flow theory?

A

Dixon

B

Mohl

C

Sanger

D

Munch

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Q111

The brain part involved in conscious activities is:

A

cerebral cortex

B

limbic system

C

Brain stem

D

thalamus

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Q112

How many carbons does citrate have in the krebs cycle?

A

5

B

6

C

8

D

4

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Q113 All of the following descriptions concerning viral multiplication and nucleic acids are true EXCEPT that:

- A viruses contain DNA or RNA, not both.
- B viruses replicate only in living cells
- C viruses use the cell's biosynthetic machinery to synthesize copies of themselves.
- D viral mRNA, viral tRNA, and viral ribosomes are used in viral replication.



Q114

Which of the following was considered as a missing link between reptiles and birds?

A

Pteranodon

B

Avimimus

C

Caudipteryx

D

Archaeopteryx

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Q115

The world No Tobacco Day is observed on

A

20 May

B

31 May

C

1 May

D

29 July

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Q116

The spinal cord consist of which type of cell bodies?

A

sensory neuron

B

motor neuron

C

connector neuron

D

all of these

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Q117

The slope of the curve obtained by plotting concentration change with time is actually

A Reaction time

B Reaction Speed

C Rate of reaction

D All of these

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Q118

Which of the following element is present in all proteins ?

A

S

B

C

C

N

D

O

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Q119

In a Voltaic Cell Zinc Electrode is dipped in

A Copper Sulphate

B Copper chloride

C Zinc Chloride

D Zinc Sulphate

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Q120

The precipitation of weaker electrolyte follows

A

Law of Mass Action

B

Law of energy Conservation

C

Le chatelier's Principle

D

None of these

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Q121

Which of the following Halogen react fast with alkanes in substitution reactions?

A

 $\text{Cl}_2$ 

B

 $\text{F}_2$ 

C

 $\text{I}_2$ 

D

 $\text{Br}_2$ 

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Q122

Which of the following element can form interstitial alloy with transition elements?

A Zn

B Mg

C H

D All of these

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Q123

The unit used to express the relative atomic mass is called

A

gram unit

B

Avogadro's number

C

atomic mass

D

atomic mass unit

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Q124

Which one is not member of Alkali metals?

A

Na

B

K

C

Cs

D

Mg

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Q125

The separation of components of liquid on the basis of their boiling points is called as?

A

Destructive distillation

B

Fractional distillation

C

Vacuum distillation

D

Partial distillation

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Q126

The outermost s and p orbitals of Noble gases are completely filled that why they are

A stable, reactive

B stable ,uncreative

C unstable, reactive

D unstable ,uncreative

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Q127

The sum of potential and kinetic energy of a system is called

A

Entropy

B

Enthalpy

C

Internal Energy

D

Heat Energy

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Q128

Rate of diffusion of liquids is \_\_\_\_\_ than gases

A

Lower

B

Higher

C

Equal to

D

All of these

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Q129

Rate of reaction increases with increase by increasing temperature because

A

The concentration of the reaction increases

B

The activation energy for reaction increases

C

Collision frequency increases

D

All of these

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Q130

In Boyle's law, the relationship between pressure and volume is

A directly proportional

B inversely proportional

C constant

D none of these

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Q131

In complex compounds the oxidation number is written in

A English

B Greek

C Roman numeral

D Hebrew

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Q132

In aluminum oxide ,ions are present in the ratio 2:3, its formula is

A

 $\text{AlO}$ 

B

 $\text{Al}_2\text{O}$ 

C

 $\text{Al}_2\text{O}_3$ 

D

 $\text{Al}_3\text{O}_2$ 

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Q133

when water freezes to ice, it occupies \_\_\_\_ more space

A

0.9 g/cm<sup>3</sup>

B

0.1 g/cm<sup>3</sup>

C

0.12 g/cm<sup>3</sup>

D

0.13 g/cm<sup>3</sup>

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Q134

What does thermodynamics means?

A

Study of change in state of the system

B

Study of energy changes during a process

C

Study of material content of a system

D

All of these

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Q135

The last subshell of alkaline earth metals

A

2s

B

1s

C

2d

D

3d

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Q136

1 amu is equal to

A

 $1.666 \times 10^{-27} \text{ kg}$ 

B

 $1.661 \times 10^{-28} \text{ kg}$ 

C

 $1.661 \times 10^{-27} \text{ kg}$ 

D

 $1.661 \times 10^{-27} \text{ kg}$ 

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Q137 All the halogens are \_\_\_\_\_ diatomic molecules

A polar

B non polar

C reactive

D non reactive

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Q138 Tollen's reagent is ammoniacal solution of \_\_\_\_\_?

A Silver nitrate

B Silver acetate

C Cupric tartrate

D Cupric citrate

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Q139

The coefficients of balanced equation are a part of Equilibrium constant value as

A denominator

B numerator

C powers of concentration

D All of these

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Q140

In order to get absolute alcohol following is added to absorb moisture

A

MgO

B

CaO

C

Co<sub>2</sub>

D

Cl<sub>2</sub>

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Q141 Which of the following is most reactive of all?

A Alkanes

B Alkenes

C Alkynes

D Benzene

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Q142

In Electrochemical Cells oxidation takes place at

A

Cathode

B

Anode

C

Away from anode

D

None of these

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Q143

The ionic radii appeared to be a/an property

A

associative

B

multiplicative

C

additive

D

all of these

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Q144

In nomenclature, aldehyde group in all aldehydes are given position 1 and its position is not mentioned in the name because?

- A Aldehyde is given priority
- B Aldehyde is parent
- C Aldehyde group is present at terminal
- D None of these

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Q145

Anisotropy is a property of crystal based on its

A

Chemical Properties

B

Lattice Structure

C

Physical Properties

D

Density

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Q146

The electrolysis of aqueous solutions of salt is complex because of the ability of water

A

to vaporize

B

to be oxidize and reduce simultaneously

C

to form hydrogen bonds

D

All of these

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Q147

The volume at S.T.P occupied by .8 g of N<sub>2</sub>

A

2.24 dm<sup>3</sup>

B

6.44 dm<sup>3</sup>

C

1.12 dm<sup>3</sup>

D

112 dm<sup>3</sup>

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Q148

Which of the following is correct about octane number?

A

Higher the octane number, higher will be knocking

B

Higher the octane number, efficiency of fuel will be lower

C

Higher the octane number, lower the knocking

D

Lower the octane number, lower the knocking

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Q149 Which one of the following is not a secondary alkyl halide?

A 2-Chloropropane

B 3-Bromobutane

C 2,3,dichloropentane

D 2-chloro,2-methylpentane

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Q150

When we calculate radii of Hydrogen atom by this equation  $r = .529A (n^2)$  where  $n = 1, 2, 3, 4, \dots$ , the distance between orbits of hydrogen atom will

A decrease

B increase

C remains same

D be constant

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Q151 A peptide having up to 10000 amino acids is called as \_\_\_\_\_?

A Dipeptide

B Protein

C Polypeptide

D Peptide

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Q152

The study of crystalline solids determines the

A

mole

B

Avogadro's number

C

atomic mass

D

atomic number

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Q153

Proteases enzyme & peptones belong to which type of protein?

A Simple protein

B Derived proteins

C Conjugated proteins

D All of these

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Q154

Which one of them is a good conductor of electricity

A

ionic solids

B

molecular solids

C

network covalent solids

D

metallic solids

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Q155

State functions are independent of

A

Enthalpy Change

B

Surroundings

C

Path of the reaction

D

system

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Q156

AB<sub>4</sub> type with no lone pair shows geometry

A

Tetrahedral

B

trigonal

C

bent

D

linear

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Q157

Ethyne molecule is formed when:

A

When two sp hybridized orbitals combine

B

When two sp<sup>2</sup> hybridized orbitals combine

C

When two sp<sup>3</sup> hybridized orbitals combine

D

When two sp<sup>2</sup>d hybridized orbitals combine

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Q158

In Ion electron method, while balancing oxygen and Hydrogen atoms

A

First balance Hydrogen

B

First balance oxygen

C

balance both at the same time

D

order doesn't matter

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Q159

Distillation of calcium acetate and calcium formate produces ?

A

Formaldehyde

B

Acetaldehyde

C

Acetone

D

None of these

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Q160

The smallest number of molecules are present in

A

3.6g of  $H_2$ 

B

4.8g of  $C_2H_5OH$ 

C

2.8 g of  $CO$ 

D

5.4 g of  $N_2O_5$ 

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Q161

As the hydrolysis of ester proceeds more and more acid is formed giving a

A

Rising curve

B

Falling Curve

C

Straight line

D

None of these

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Q162 By which of the following way acetamide can be prepared?

A Hydrolysis of ethyl chloride

B Heating methyl cyanide

C Heating ammonium acetate

D Heating ethyl acetate

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Q163

which of the following has neither secondary nor tertiary hydrogen

A

isobutane

B

pentane

C

neo-pentane

D

isopentane

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Q164

First step in the  $S_N1$  reaction is\_\_\_\_\_?

A

Dehydration

B

Protonation

C

Ionization

D

Attack of nucleophile and departure of leaving group

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Q165

Tertiary alcohols upon reaction with oxidizing agents give \_\_\_\_\_ as major product?

A Carboxylic acids

B Alkene

C Alkyne

D Ester

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Q166

The central atom along with ligands is called

A

Complex ion

B

Coordination sphere

C

Ligand

D

Complex compound

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Q167

If any two sub shells have same  $(n+l)$  values, the sub shells of \_\_\_\_\_ value will placed first

A higher

B smaller

C equal

D moderate

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Q168

Decomposition of Ozone has a very low value of equilibrium constant because of its

A

stability

B

reactivity

C

compressibility

D

Instability

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Q169

Gold is \_\_\_\_\_precious metal.

A

a

B

an

C

the

D

no article

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Q170

Choose the correct spelling of the word

A

fual

B

fuel

C

fule

D

fuil

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Q171

Choose the correct sentence.

A

The weather in August is ususally very humid!

B

The weather in August is ususally very humid.

C

The weather in august is ususally very humid.

D

The weather in August is ususally very Humid.

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Q172

He is so shy. I haven't seen him \_\_\_\_\_

A

talking

B

jumping

C

limping

D

angry

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Q173

He \_\_\_\_\_ his fortune amongst his three children.

A

divides

B

divided

C

is dividing

D

divide

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Q174

Here \_\_\_\_\_ the bus!

A

came

B

come

C

has come

D

comes

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Q175

It is raining cats and dogs.

A

Declarative

B

Imperative

C

Interrogative

D

Exclamatory

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Q176

evoke

A

sell

B

calm

C

call

D

exaggerate

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Q177

The tomatoes \_\_\_\_\_ picked when they were ripe.

A are speaking

B were

C are being

D were being

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Q178 They wanted money (A)/ to purchase somethings (B)/ for themselves (C)/ and donated to their friends. D)

A They wanted money

B to purchase somethings

C for themselves

D and donated to their friends.

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Q179

Choose the correct spelling of the word

A

except

B

excapt

C

excipt

D

ecsept

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Q180

The thief \_\_\_\_\_ before the policeman reaches.

A will have escape

B will have escaped

C will escaped

D will escape

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Q181

Shall I turn \_\_\_\_\_ radio off?

A

a

B

an

C

the

D

no article

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Q182

Choose the correct sentence.

A

Help help! Me I'm drowning.

B

Help! Help me! I'm drowning!

C

Help, help me. Im drowning.

D

Help help me! Im drowning!

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Q183

Choose the correct sentence.

A "Trust me, I know what I'm doing," Bilal said. "Your car is not hard to fix."

B "Trust me, I know what I'm doing," Bilal said. "your car is not hard to fix."

C "Trust me I know what Im doing," Bilal said. "Your car is not hard to fix."

D "Trust me, I know what I'm doing," Bilal said. Your car is not hard to fix.

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Q184

China is one of the most \_\_\_\_\_ countries in the world.

A popular

B populous

C populate

D popularized

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Q185

The peon will not \_\_\_\_\_ the bell yet.

A has rings

B had rung

C have rung

D rings

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Q186

We \_\_\_\_\_ (eat) the popcorn and \_\_\_\_\_ (drink) the orange juice.

A eat, drink

B ate, drink

C eat, drank

D ate, drank

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Q187

There is \_\_\_\_\_ institution for \_\_\_\_\_ blind in this city.

A

a... an

B

a... the

C

an.. a

D

an.. the

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Q188

Which one is correct?

A

Had she clean her home?

B

Is that she cleaned her home?

C

Did she clean her home?

D

Has she cleaned her home?

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Q189

Which one of the following is a different one?

A

Skin

B

Lungs

C

Heart

D

Life

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Q190

Statements No cities are countries. No countries are villages. Conclusions (I) Some countries are cities. (II) No villages are the city.

A Only conclusion (I) follows

B Only conclusion (II) follows

C Both conclusions follow

D Both of them do not follow

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Q191

Which letter lies in the middle of word Quality?

A

L

B

A

C

U

D

Y

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Q192

Statements (I) He have got cavity in his tooth (II) He eats too much chocolates

A

statement 1 is the cause then 2 is its effect

B

statement 2 is the cause then 1 is its effect.

C

both statements are independent causes

D

both statements are of common cause

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Q193

Which of following can never be ending of a perfect square?

A

0

B

0

C

14

D

Both A and B

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Q194

Statements Should admission to the professional degrees in Pakistan be given only on merit without any concession to any particular group of students? Arguments (I) Yes. This will improve the quality of the professional institutes and degrees as they will be able to complete the degree successfully. (II) No. This will keep a large number of socially and economically backward students out of the reach of professional institutes and degrees.

- A If argument I is strong.
- B If only argument II is strong
- C If both I and II are strong.
- D If neither I nor II is strong

Q195

Look at this series: 36, 34, 30, 28, 24, ... What number should come next?

A

22

B

26

C

23

D

20

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Q196

Statement The availability of imported fruits has increased in the indigenous market and so the demand for indigenous fruits has been decreased. I. To help the indigenous producers of fruits, the Government should impose high import duty on these fruits, even if these are not of good quality. II. The fruit vendors should stop selling imported fruits. So that the demand for indigenous fruits would be increased.

A Both of them follows

B None of them follows

C Only I follows

D Only II follows

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Q197

Statement The availability of imported fruits has increased in the indigenous market and so the demand for indigenous fruits has been decreased. I. To help the indigenous producers of fruits, the Government should impose high import duty on these fruits, even if these are not of good quality. II. The fruit vendors should stop selling imported fruits. So that the demand for indigenous fruits would be increased.

A both of them follows

B None of them follows

C Only I follows

D Only II follows

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Q198

Country with the highest muslim population is \_\_\_\_\_

A Pakistan

B Malaysia

C Indonesia

D Iran

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Q199

Range of wavelength of visible light is :

A

 $700^{\circ}\text{A} - 1000^{\circ}\text{A}$ 

B

 $1\text{nm} - 100\text{nm}$ 

C

 $0.1\text{nm} - 1\text{nm}$ 

D

 $4000^{\circ}\text{A} - 7000^{\circ}\text{A}$ 

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Q200

Which statement is true about noncompetitive inhibitors?

A They bind covalently to the enzyme and disrupt the substrate from attaching

B They bind at the active site of the enzyme

C They actively block the enzyme from attaching to the substrate.

D They alter the conformation of the enzyme.

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Q201

The study of electric charges at rest in electric field is known as:...

A electromagnetism

B electrostatics

C quantum physics

D magnetism

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Q202

Peak voltage in the output of full wave rectifier is 10V so dc component of output voltage is

A

 $10\sqrt{2}$ 

B

 $20/\sqrt{2}$ 

C

 $20/\pi$ 

D

 $20\pi$ 

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Q203

A transverse wave on a string has an amplitude  $A$ . A tiny spot on the string is colored red. As 1.5 cycle of the wave passes by, what is the total distance traveled by the red spot?

A  $A$

B  $2A$

C  $4A$

D  $6A$

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Q204

The electron is purely a \_\_\_\_ when free

A particle nature

B wave nature

C dual nature

D it transform to photon

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Q205

What's the difference between homologous and analogous structures?

A

Homologous structures result from a common ancestor; analogous structures result from repetitive usage by the individual

B

Homologous structures result from convergent evolution; analogous structures result from a common ancestor

C

There is no difference between homologous and analogous structures

D

Homologous structures result from a common ancestor; analogous structures result from convergent evolution

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Q206

Rigor mortis after death results due to which?

A

Decrease in body temperature after death.

B

Accumulation of rigid proteins molecules in sarcoplasm.

C

Death of tissue due to unavailability of O<sub>2</sub>.

D

Unavailability of ATP, which is necessary to break the link between actin and myosin.

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Q207

Optimal pH for working of enzymes is?

A

5

B

7.5

C

9

D

3

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Q208 In which of the following cases, genotypic and phenotypic ratio will remain same in F<sub>2</sub> generation?

A Law of independent assortment

B Law of Segregation

C Test cross

D Incomplete dominance

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Q209

Structure of a Crystal is changed due to

A

Cooling

B

Heating

C

Impurity

D

None of these

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Q210

Which of the following causes complete reduction of carboxylic acid into alkanes?

A

 $\text{H}_2/\text{Ni}$ 

B

 $\text{Pd/C}$ 

C

 $\text{HI/P}$ 

D

 $\text{LiAlH}_4$ 

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